

"VARIABLE"	"DESCRIPTION"	"SAMPLE_TYPE"	"UNITS"	"RANGE_LOW"	"RANGE_HIGH"	"LEGAL_VALUES"
"AMPHNTAX"	"No. of Amphipoda taxa"	"BERWW"	" "	0		
"AMPHPIND"	"% Amphipoda individuals"	"BERWW"	" "	0	100	
"AMPHPTAX"	"% Amphipoda taxa"	"BERWW"	" "	0	100	
"BENT_COM"	"Comment on benthic sample"	"BERWW"	" "			
"BURRNTAX"	"No. of Burrowers taxa"	"BERWW"	" "	0		
"BURRPIND"	"% Burrowers individuals"	"BERWW"	" "	0	100	
"BURRPTAX"	"% Burrowers taxa"	"BERWW"	" "	0	100	
"CHIRDOM1PIND"	"% individuals in most abundant Chironomidae taxon"					
"BERWW"	" "	0	100			
"CHIRDOM3PIND"	"% individuals in most abundant 3 Chironomidae taxa"					
"BERWW"	" "	0	100			
"CHIRDOM5PIND"	"% individuals in most abundant 5 Chironomidae taxa"					
"BERWW"	" "	0	100			
"CHIRNTAX"	"No. of Chironomidae taxa"	"BERWW"	" "	0		
"CHIRPIND"	"% Chironomidae individuals"	"BERWW"	" "	0	100	
"CHIRPTAX"	"% Chironomidae taxa"	"BERWW"	" "	0	100	
"CLMBNTAX"	"No. of Climbers taxa"	"BERWW"	" "	0		
"CLMBPIND"	"% Climbers individuals"	"BERWW"	" "	0	100	
"CLMBPTAX"	"% Climbers taxa"	"BERWW"	" "	0	100	
"CLNGNTAX"	"No. of Clingers taxa"	"BERWW"	" "	0		
"CLNGPIND"	"% Clingers individuals"	"BERWW"	" "	0	100	
"CLNGPTAX"	"% Clingers taxa"	"BERWW"	" "	0	100	
"COFINTAX"	"No. of Collector-filterer taxa"	"BERWW"	" "	0		
"COFIPIND"	"% Collector-filterer individuals"	"BERWW"	" "	0	100	
"COFIPTAX"	"% Collector-filterer taxa"	"BERWW"	" "	0	100	
"COFITRICNTAX"	"No. of Collector-filterer Trichoptera taxa"	"BERWW"				
" "	0					
"COFITRICPIND"	"% Collector-filterer Trichoptera individuals"					
"BERWW"	" "	0	100			
"COFITRICPTAX"	"% Collector-filterer Trichoptera taxa"	"BERWW"	" "			
0	100					
"COGANTAX"	"No. of Collector-gatherer taxa"	"BERWW"	" "	0		
"COGAPIND"	"% Collector-gatherer individuals"	"BERWW"	" "	0	100	
"COGAPTAX"	"% Collector-gatherer taxa"	"BERWW"	" "	0	100	
"CRUSNTAX"	"No. of Crustaceans taxa"	"BERWW"	" "	0		
"CRUSPIND"	"% Crustaceans individuals"	"BERWW"	" "	0	100	
"CRUSPTAX"	"% Crustaceans taxa"	"BERWW"	" "	0	100	
"DATE_BENT"	"Date of actual benthic collection"	"BERWW"	" "			
"DATE_COL"	"Date of field collection"					
"DIPTNTAX"	"No. of Diptera taxa"	"BERWW"	" "	0		
"DIPTPIND"	"% Diptera individuals"	"BERWW"	" "	0	100	
"DIPTPTAX"	"% Diptera taxa"	"BERWW"	" "	0	100	
"DOM1PIND"	"% individuals in dominant taxon, without regard to distinctness"	"BERWW"	" "	0	100	
"DOM3PIND"	"% individuals in dominant 3 taxa, without regard to distinctness"	"BERWW"	" "	0	100	

"DOM5PIND"	"% individuals in dominant 5 taxa, without regard to distinctness"	"BERWW"	" "	0	100
"EPHENTAX"	"No. of Ephemeroptera taxa"	"BERWW"	" "	0	
"EPHEPIND"	"% Ephemeroptera individuals"	"BERWW"	" "	0	100
"EPHEPTAX"	"% Ephemeroptera taxa"	"BERWW"	" "	0	100
"EPOTNTAX"	"No. of Ephemeroptera, Plecoptera, Odonata, & Trichoptera taxa"	"BERWW"	" "	0	
"EPOTPIND"	"% Ephemeroptera, Plecoptera, Odonata, & Trichoptera individuals"	"BERWW"	" "	0	100
"EPOTPTAX"	"% Ephemeroptera, Plecoptera, Odonata, & Trichoptera taxa"	"BERWW"	" "	0	100
"EPT_NTAX"	"No. of EPT taxa"	"BERWW"	" "	0	
"EPT_PIND"	"% EPT individuals"	"BERWW"	" "	0	100
"EPT_PTAX"	"% EPT taxa"	"BERWW"	" "	0	100
"FACLNTAX"	"No. of Facultative (PTV>=4 and PTV<6) taxa"	"BERWW"	" "	0	
"FACLPIND"	"% Facultative (PTV>=4 and PTV<6) individuals"	"BERWW"	" "	0	100
"FACLPTAX"	"% Facultative (PTV>=4 and PTV<6) taxa"	"BERWW"	" "	0	100
"FW_ECO3"	"Three climatic regions of the US used in WSA in indicator development: Eastern Highlands, West, and Plains and Lowlands"				
"FW_ECO9"	"Aggregated level 3 ecoregions used in WSA"				
"GREAT_RIVER"	"Great river site"				
"HEMINTAX"	"No. of Hemiptera taxa"	"BERWW"	" "	0	
"HEMIPIND"	"% Hemiptera individuals"	"BERWW"	" "	0	100
"HEMIPTAX"	"% Hemiptera taxa"	"BERWW"	" "	0	100
"HPRIME"	"Shannon diversity- sum of prop_i*ln(prop_i) based only on distinct taxa"				
"INTLNTAX"	"No. of Intolerant (PTV<4) taxa"	"BERWW"	" "	0	
"INTLPIND"	"% Intolerant (PTV<4) individuals"	"BERWW"	" "	0	100
"INTLPTAX"	"% Intolerant (PTV<4) taxa"	"BERWW"	" "	0	100
"MITENTAX"	"No. of Mite taxa"	"BERWW"	" "	0	
"MITEPIND"	"% Mite individuals"	"BERWW"	" "	0	100
"MITEPTAX"	"% Mite taxa"	"BERWW"	" "	0	100
"MOLLNTAX"	"No. of Mollusca taxa"	"BERWW"	" "	0	
"MOLLPIND"	"% Mollusca individuals"	"BERWW"	" "	0	100
"MOLLPTAX"	"% Mollusca taxa"	"BERWW"	" "	0	100
"NOINNTAX"	"No. of Non-insects taxa"	"BERWW"	" "	0	
"NOINPIND"	"% Non-insects individuals"	"BERWW"	" "	0	100
"NOINPTAX"	"% Non-insects taxa"	"BERWW"	" "	0	100
"NTOLNTAX"	"No. of non-tolerants (PTV<6) taxa"	"BERWW"	" "	0	
"NTOLPIND"	"% non-tolerants (PTV<6) individuals"	"BERWW"	" "	0	100
"NTOLPTAX"	"% non-tolerants (PTV<6) taxa"	"BERWW"	" "	0	100
"ODONNTAX"	"No. of Odonata taxa"	"BERWW"	" "	0	
"ODONPIND"	"% Odonata individuals"	"BERWW"	" "	0	100

"ODONPTAX"	"% Odonata taxa"	"BERWW"	" "	0	100	
"OLLENTAX"	"No. of Oligochaete and leech taxa"	"BERWW"	" "			0
"OLLEPIND"	"% Oligochaete and leech individuals"	"BERWW"	" "			0
100						
"OLLEPTAX"	"% Oligochaete and leech taxa"	"BERWW"	" "	0	100	
"ORTHCHIRPIND"	"% Chironomidae individuals in Orthoclaadiinae"					
"BERWW"	" "	0	100			
"ORTHNTAX"	"No. of Orthoclaadiinae chironomid taxa"	"BERWW"	" "			0
"ORTHPIIND"	"% Orthoclaadiinae chironomid individuals"	"BERWW"	" "			
0	100					
"ORTHPTAX"	"% Orthoclaadiinae chironomid taxa"	"BERWW"	" "	0	100	
"PLECNTAX"	"No. of Plecoptera taxa"	"BERWW"	" "	0		
"PLECPIND"	"% Plecoptera individuals"	"BERWW"	" "	0	100	
"PLECPTAX"	"% Plecoptera taxa"	"BERWW"	" "	0	100	
"PREDNTAX"	"No. of Predators taxa"	"BERWW"	" "	0		
"PREDPIND"	"% Predators individuals"	"BERWW"	" "	0	100	
"PREDPTAX"	"% Predators taxa"	"BERWW"	" "	0	100	
"SAMPLE_CAT"	"Sample category (Primary/Duplicate/Filter blank)"					
"SAMPLE_TYPE"	"Sample type"					
"SCRPNNTAX"	"No. of Scrapers taxa"	"BERWW"	" "	0		
"SCRPPIND"	"% Scrapers individuals"	"BERWW"	" "	0	100	
"SCRPPPTAX"	"% Scrapers taxa"	"BERWW"	" "	0	100	
"SHRDNTAX"	"No. of Shredders taxa"	"BERWW"	" "	0		
"SHRDPIND"	"% Shredders individuals"	"BERWW"	" "	0	100	
"SHRDPTAX"	"% Shredders taxa"	"BERWW"	" "	0	100	
"SITE_CLASS"	"Site class (NAWQA, PROB, HAND)"					
"SITE_ID"	"Site identification code"					
"SPWLNTAX"	"No. of Sprawlers taxa"	"BERWW"	" "	0		
"SPWLPIND"	"% Sprawlers individuals"	"BERWW"	" "	0	100	
"SPWLPTAX"	"% Sprawlers taxa"	"BERWW"	" "	0	100	
"STOLNTAX"	"No. of taxa with PTV>=8"	"BERWW"	" "	0		
"STOLPIND"	"% Individuals with PTV>=8"	"BERWW"	" "	0	100	
"STOLPTAX"	"% taxa with PTV>=8"	"BERWW"	" "	0	100	
"STRAHLERORDER"	"Strahler stream order from RF3 stream data"					
"SWIMNTAX"	"No. of Swimmers taxa"	"BERWW"	" "	0		
"SWIMPIND"	"% Swimmers individuals"	"BERWW"	" "	0	100	
"SWIMPTAX"	"% Swimmers taxa"	"BERWW"	" "	0	100	
"TANYNTAX"	"No. of Tanytarsini taxa"	"BERWW"	" "	0		
"TANYPIND"	"% Tanytarsini individuals"	"BERWW"	" "	0	100	
"TANYPTAX"	"% Tanytarsini taxa"	"BERWW"	" "	0	100	
"TL01NTAX"	"No. of taxa with PTV<2"	"BERWW"	" "	0		
"TL01PIND"	"% Individuals with PTV <2"	"BERWW"	" "	0	100	
"TL01PTAX"	"% taxa with PTV<2"	"BERWW"	" "	0	100	
"TL23NTAX"	"No. taxa with PTV >=2 & <4"	"BERWW"	" "	0		
"TL23PIND"	"% individuals with PTV >=2 & <4"	"BERWW"	" "	0	100	
"TL23PTAX"	"% taxa with PTV>=2 & <4"	"BERWW"	" "	0	100	

"TL45NTAX"	"No. taxa with PTV >=4 & <6"	"BERWW"	" "	0	
"TL45PIND"	"% individuals with PTV >=4 & <6"	"BERWW"	" "	0	100
"TL45PTAX"	"% taxa with PTV>=4 & <6"	"BERWW"	" "	0	100
"TL67NTAX"	"No. taxa with PTV >=6 & <8"	"BERWW"	" "	0	
"TL67PIND"	"% individuals with PTV >=6 & <8"	"BERWW"	" "	0	100
"TL67PTAX"	"% taxa with PTV>=6 & <8"	"BERWW"	" "	0	100
"TOLRNTAX"	"No. of Tolerant (PTV>=6) taxa"	"BERWW"	" "	0	
"TOLRPIND"	"% Tolerant (PTV>=6) individuals"	"BERWW"	" "	0	100
"TOLRPTAX"	"% Tolerant (PTV>=6) taxa"	"BERWW"	" "	0	100
"TOTLNIND"	"Number of individuals in sample"	"BERWW"	" "	0	
"TOTLNTAX"	"Number of distinct taxa in sample"	"BERWW"	" "	0	
"TRICNTAX"	"No. of Trichoptera taxa"	"BERWW"	" "	0	
"TRICPIND"	"% Trichoptera individuals"	"BERWW"	" "	0	100
"TRICPTAX"	"% Trichoptera taxa"	"BERWW"	" "	0	100
"TUBINAIDNTAX"	"No. of Tubificidae and Naididae taxa"	"BERWW"	" "	0	
"TUBINAIDPIND"	"% Tubificidae and Naididae individuals"	"BERWW"	" "	0	100
"TUBINAIDPTAX"	"% Tubificidae and Naididae taxa"	"BERWW"	" "	0	100
"UID"	"Unique site visit ID"				
"VISIT_NO"	"Visit number for that year"				
"WTD_TV"	"HBI, or sum of TV_i*prop_i, with proportions based only on taxa with PTVs"				
"YEAR"	"Sampling year"				